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| 10/671,610 | 09/29/2003 | Sung-wook Kang | 1349.1213 | 8528 |

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| EXAMINER |
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GIBBS, HEATHER D

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| ART UNIT | PAPER NUMBER |
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2625

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05/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/671,610

Applicant(s)

KANG ET AL.

Examiner

Heather D. Gibbs

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34, 36 and 37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-9, 36-37 is/are rejected.
- 7) ☒ Claim(s) 5-6 AND 10-34 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed February 20, 2007 have been fully considered but they are not persuasive. Regarding claims 1,36-37, Applicant argues there is no basis to assert..." a moving body that moves a scan unit to scan a first paper and moves a print unit to print on a second paper." The Examiner finds this limitation to be taught in Column 3 Lines 65-Col 4 Lines 7. Egashira teaches the scan unit 31 being attached to the moving body 41 carrying a document to be copied or being transmitted by means of facsimile communication. The print unit 32, also attached to moving body 41, carries paper on the paper tray to be transferred to the printing section 25. The examiner finds this reads on the limitation of having the moving body move a scan unit and a print unit. The paper tray 36, located on the upper surface of the device body 41, can be moved in an open and close state, as well.

Applicant argues, "there is no basis to assert that Egashira discloses or suggests that scanner/copy apparatus unit 26 and the image transferring part 25e are 'selectively connected'". Examiner wishes to point the applicant's attention to Col 5 Lines 9-13 wherein Egashira teaches " the image reader 23 is located in the first paper transfer path 39, and the printing section 25 is located in the second paper transfer path 40, the locations of these elements may be exchanged to each other." Hence, the scanner unit 23 and the printer unit are selectively connected as one is able to make a choice as to which unit he/she wishes to be connected to the main body.

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Applicant also argues " there is no basis to assert that Egashira discloses or suggests that scanner/copy processing unit 26 is selectively mounted to the second cover 35". Examiner wishes to point the applicant's attention to Fig 3, which shows the scanner unit 26, mounted on the cover 35 that is opened and closed. The diverging means 38 selects which paper path the paper is guided through Col 4 Lines 51-59.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4,7-9,36-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Egashira et al (US 5,567,068).

Regarding claim 1, Egashira teaches a combined flat bed scanner/printer machine comprising: a moving body that is movable; a scan unit, moved by the moving body to scan a first paper; and a print unit, moved by the moving body to print on a second paper (Col 4:12-14,60-61; 5:5-8).

For claim 4, Egashira teaches wherein the scan unit and the print unit are mounted on the moving body (Fig 3).

For claim 7, Egashira teaches a connecting unit; wherein the print unit and the scan unit are selectively connected to each other by the connecting unit (Fig 3).

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For claim 8, Egashira teaches a connecting unit; wherein the print unit is mounted on the moving body, and the scan unit is selectively mounted on the moving body by the connecting unit to scan the first paper (Fig 3).

For claim 9, Egashira teaches wherein the moving body does not move the scan unit during printing (Col 5:1-4).

For claim 36, Egashira teaches a combined flat bed scanner/printer machine comprising: a moving body 34,35 that is movable; a scan unit 23, to scan a first paper; and a print unit 25, to print on a second paper, wherein one of the scan unit or the print unit is connected to the moving body, and the remaining one of the scan unit or the print unit is selectively connected to the moving body (Col 4 Lines 12-14,50-61; Col 5 Lines 5-8; Col 9 Lines 9-13).

Considering claim 37, Egashira discloses a combined flat bed scanner/printer machine comprising: a print unit 25, to print on a second paper; and a scan unit 23, selectively connected to the print unit, and reduce a load on the print unit during printing (Col 4 Lines 12-14,50-61; Col 5 Lines 5-8; Col 9 Lines 9-13).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egashira et al (US 5,567,068) in view of Ahn (US 6,519,047).

Egashira et al discloses the combined flat bed scanner/printer machine as discussed above.

Egashira does not disclose expressly wherein the print unit is an ink jet head or wherein scanning and printing occur simultaneously.

Ahn discloses wherein the print unit is an ink jet head and wherein scanning and printing occur simultaneously (Col 5:57-67; Col 6:30-45).

Egashira & Ahn are combinable because they are from the same field of endeavor.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Ahn with Egashira.

The suggestion/motivation for doing so would have been to simply the structure of Egashira.

Therefore, it would have been obvious to combine Ahn with Egashira to obtain the invention as specified in claims 2-3.

6. Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egashira et al (US 5,567,068) in view of Lopez et al (US 6,414,760).

Egashira discloses the combined flat bed scanner/printer machine as discussed above.

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Egashira does not disclose expressly wherein the scan unit comprised a line scanner having a plurality of image sensors, which comprise charge-coupled devices or contact image sensors.

Lopez discloses wherein the scan unit comprised a line scanner having a plurality of image sensors, which comprise charge-coupled devices or contact image sensors (Col 2:25-63).

Egashira & Lopez are combinable because they are from the same field of endeavor.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Lopez with Egashira.

The suggestion/motivation for doing so would have been to have a choice of either CCD or CIS sensors.

Therefore, it would have been obvious to combine Lopez with Egashira to obtain the invention as specified in claims 32-34.

Allowable Subject Matter

7. Claims 5-6,10-11,12-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter: a scan recess to park the scan unit when the scan unit is not mounted on the moving body, as cited in claim 10 or a toggle latch connected to one of the print unit or

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the scan unit; and a locking projection connected to the remaining one of the print unit or the scan unit, wherein the toggle switch is opened when the print unit and the scan unit are not connected, and the toggle switch is closed around the locking projection when the print unit and the scan unit are connected, as cited in claim 15 or wherein the unit comprises a latching projection protruding from one of the moving body or the scan unit; a pivoting member pivotably disposed on the remaining one of the moving body or the scan unit, and having a hook to selectively engage the latching projection when the pivoting member pivots; and a moving unit disposed on a conveyance path of the moving body and pivoting the pivoting member to disengage the hook from the latching projection to print on the second paper, as cited in claim 18.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

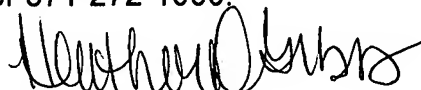
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather D. Gibbs whose telephone number is 571-272-7404. The examiner can normally be reached on M-Thu 8AM-7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung S. Moe can be reached on 571-272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Heather D Gibbs
Examiner
Art Unit 2625

HDG


AUNG S. MOE
SUPERVISORY PATENT EXAMINER
5/14/07